

# Hungry Canyons Alliance

## I. Project Overview

### A. Purpose:

Focus attention on the problems of, and develop solutions related to, stream channel degradation in the deep loess region of western Iowa.

### B. Needs:

404 bridges susceptible to significant damage from stream degradation (from correspondence with county engineers and Iowa DOT study)

### C. Goals:

Provide financial and technical assistance for streambed stabilization projects in the 22 counties.

Conduct research and provide demonstration for members.

## II. Progress Report (1992-2000)

### A. Structures as of 01-01-01:

- |                            |     |
|----------------------------|-----|
| 1. Structures approved:    | 157 |
| 2. Structures completed:   | 102 |
| 3. Structures in progress: | 55  |

### B. Costs as of 01-01-01:

- |  |               |
|--|---------------|
| 1. Total costs:                            | \$ 12,456,025 |
| 2. Total HCA cost share spent:             | \$ 4,744,653  |
| 3. Total HCA cost share obligated:         | \$ 3,788,203  |
| 4. Cost share per structure:               | \$ 54,349     |
| 5. Counties share of total cost spent:     | \$ 2,117,444  |
| 6. Counties share of total cost obligated: | \$ 1,805,725  |

### C. Benefits as of 01-01-01:

- |                                      |               |
|--------------------------------------|---------------|
| 1. Total property protected:         | \$ 39,981,800 |
| 2. Property protected per structure: | \$ 254,661    |

***For every \$1 invested in Hungry Canyons Alliance streambed stabilization structures, \$4.41 in property value is protected.***

## III. Funding Summary (1992-2000)

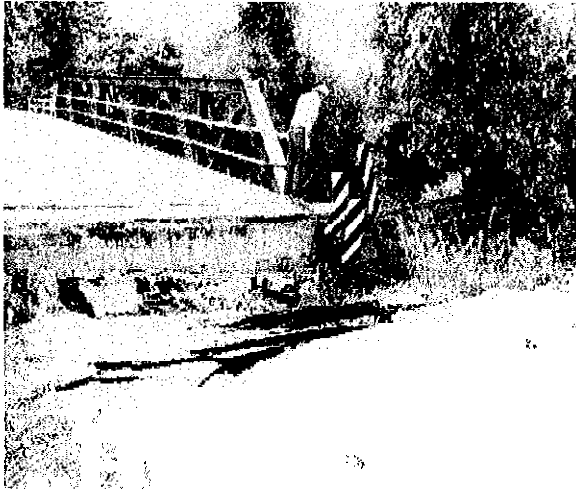
### A. Total Appropriations:

- |                  |               |
|------------------|---------------|
| 1. Federal:      | \$ 4,950,000  |
| 2. State:        | \$ 6,142,500  |
| 3. Total:        | \$ 11,092,500 |
| 4. County share: | \$ 3,923,169  |

### B. Funds Needed:

Total needed to reach goal of protecting 404 bridges: \$29 million

- Annual appropriations of \$2.25 million (\$1.5 million in state funds, \$750,000 in federal funds) for 13 more years (assuming 1.2 structures protecting each bridge and no disastrous floods)

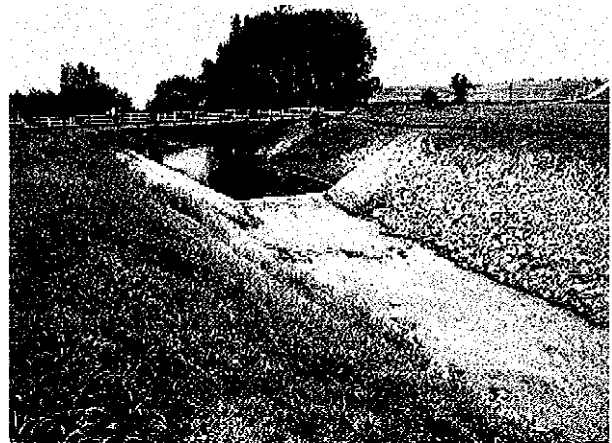


## Hungry Canyons Alliance Streambed Stabilization Program Fiscal Year 2000 Report

Stream channel erosion has caused more than \$1.1 billion in damages to public and private infrastructure and farmland in the deep loess soil region of western Iowa. This erosion has been greatly accelerated by the channelization of the streams during the first half of the 1900's. Damages caused by stream channel erosion include the failure of highway bridges, destruction of utility lines, and loss of productive farmland.

Local, state, and federal resources have been provided to Hungry Canyons Alliance to protect threatened infrastructure and land through the construction of stream stabilization structures. Hungry Canyons Alliance makes these resources available to its 22 member counties through its cost share program. Since 1992, the program has provided the technical assistance and funds needed to construct 157 grade stabilization structures in 15 counties in western Iowa.

The fiscal year 2000 Hungry Canyons Cost-Share Program will construct 32 in-streambed stabilization structures in nine counties for a total cost share of \$2,326,928. Cost share funds for these structures will be provided by the State of Iowa (\$1,500,000), by the US Congress through the USDA Natural Resources Conservation Service (\$700,000), and county governments (\$613,231). These structures will protect 35 state and county bridges, hundreds of feet of utility lines and culverts, 150 acres of farmland, and avoid close to \$700,000 in traffic rerouting costs.



Hungry Canyons Alliance streambed structures, with an average cost of \$91,750, protect \$296,900 in property. Table 1 below provides a summary of the impact that these stream stabilization projects have on threatened infrastructure and land.

Fiscal Year	# of Grade Stabilization Structures	Total Cost of structures	Value of Bridges Protected	Value of Other Infrastructure Protected	Value of Farmland Protected	Total Value of Property Protected
2000	32	\$ 2,935,100	\$ 8,368,500	\$ 825,000	\$306,200	\$ 9,499,700

Table 1

**For fiscal year 2000, each dollar invested in a Hungry Canyons Alliance streambed stabilization structure protects \$4.08 of property.**

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